Notebook, N-11-07-21

July 21 1911

Rome Co.,
MFG. STATIONERS,
69 FULTON STREET,
NEW YORK.
45008

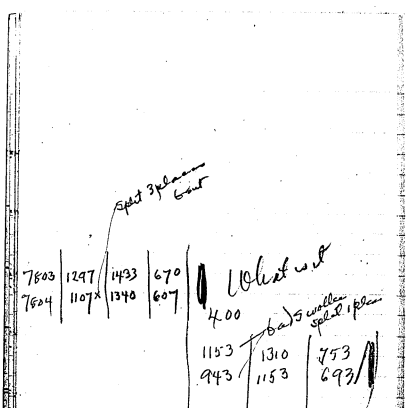
Hc Cl Ibr 769	7835	7797	1047	1263	1287	327	1287	1313	467		
	7880	7798	1077	1310	1350	367	1343	1377	457		
Hc Cl Ibr 770	7715	7799	1067	1330	1357	397	1383	1410	473		
	7740	7800	1090	1320	1350	422	1333	1380	467		
Hc Cl Ibr 771	8090	7801	1057	1297	1343	420	1230	1403	440		
	8035	7802	1100	1353	1373	472	1313	1459	453		
Hc Cl Ibr 772	7668	7803	1127	1313	1333	433	1377	1393	580		
	7620	7804	1140	1347	1357	433	1397	1443	477		
Hc Cl Ibr 774	7130	7805	830	1100	1113	520	1213	1260	713		
	7150	7806	783	1070	1083	520	1170	1217	663		
for bulb diameter)				After 10 hrs runs			20				
Bromwich H_2CCl_2 Expt		7807	1227	1530	—	1000	1520	1527	1190		
	7270	7808	1227	1527	—	1010	1530	1537	1190		
BH_2	7253	7809	1227	1537	—	970	1543	1553	1190		
	7318										
Hc Cl Ibr 736 -	7210	7810	1148	1227	1237	590	1223	1330	648		
pressed 300 atmos	7245	7811	1177	1280	1300	727	1323	1400	647		
Hc Cl Ibr 755 -	7045	7812	1243	1307	1320	577	1360	1393	580		
pressed 300 atmos	7045	7813	1230	1300	1307	503	1357	1377	533		

7803	1467	1500	605	1457	1503	573	1443	1490	720	300				
04	1490	1517	608	1447	1527	627	1347	1447	753	1297	1397	480		
										1283	1297	517		

all swollen + felt 3 places last.

	30			40		
7807	1577	1583	1253	1490	1497	1320
7808	1540	1550	1107	1487	1490	1320
7809	1560	1590	1082	1493	1500	1233

7812	1400	1450	658	1367	1443	670	1297	1410	757					
13	1413	1430	603	1377	1423	Cod	1270	1363	713					


split 3 planes
Grout
7603 1297 1433 670
7604 1107 1340 607
Volcanic wall
400
Bars welded split 1 plane
1153 1310 753
943 1153 693

Goldstein 773 made from $NiCl_2$ a 520 Mwt. pressed 300 at/min.		7814 / 7815	1032 / 1000	1243 / 1247	1273 / 1257	383 / 403	1327 / 1283	1393 / 1323	490 / 463
Goldstein 774 Dry $NiSO_4$-Rolls - 6490 / 6710 300 at		7816 / 7817	1023 / 1030	1187 / 1200	1207 / 1227	410 / 410	1220 / 1210	1263 / 1263	460 / 453
Goldstein 780 Dry Rollpress 300 at	6990 / 7110	7818 / 7819	1103 / 1107	1240 / 1277	1257 / 1297	410 / 577	1240 / 1283	1313 / 1353	460 / 538
Goldstein 788 Dry $NiSO_4$ 1/2% Cobalt 300 at	6690 / 6630	7820 / 7821	923 / 933	1240 / 1217	1250 / 1230	523 / 520	1280 / 1248	1330 / 1327	530 / 470
Goldstein 789 Dry press acrylic hint 1/2% Co 300 at	6598 / 6685	7822 / 7823	990 / 933	1230 / 1167	1263 / 1180	467 / 400	1000 / 1200	1380 / 1270	470 / 490
Goldstein 790 Dry $NiSO_4$ + 3% Cobalt	6449 / 6500	7824 / 7825	863 / 880	1193 / 1210	1200 / 1220	400 / 400	1227 / 1150	1273 / 1177	473 / 503
Goldstein 791 pressed 300 at	6230 / 6230	7826 / 7827	917 / 950	1103 / 1147	1120 / 1163	410 / 410	1067 / 1133	1133 / 1197	403 / 407
Goldstein 792 300 at	6650 / 6690	7828 / 7829	893 / 897	1230 / 1247	1260 / 1257	403 / 407	1263 / 1230	1433 / 1327	407 / 413

7814	1430	1490	511	1440	1507	593	
15	1243	1433	468	1090	1500	513	
16	1297	1313	528	1130	1310	573	
17	1243	1380	416	1073	1310	477	
7818	1257	1357	515	1147	1287	570	
7819	1297	1417	541	1027	1293	513	
20	1310	1397	515	1133	1303	473	
21	1147	1398	508	903	1110	437	
7822	1283	Cadaver 1373	468	1090	1240	410	
23	1183	1307	471	997	1090	457	
24	1250	1333	518	1050	1243	497	
25	1233	1330	518	1023	1250	460	
26	1113	1198	455	953	1087	493	
27	1180	1260	471	990	1177	420	

1450	1557	660		1317	1493	422	
1343	1433	593		1010	1397	347	
993	1163	537					
967	997	483					

all swollen
swollen
spl. + phar

Note — swollen slightly, split in places

	350	½	H				
7814	1313	1450	667	1127	1360	747	
15	1373	1440	633	1200	1367	448	

Quelch 793	6613	7830	970	1197	1210	410	1163	1267	420
300 at	6640	7831	960	1143	1353	620	1237	1290	424
Reg Mallett — Expt Tues 4 June									
E 8445 Dropped conc $CaCl_2$		7832	443	900	910	610			
Finke Woolford & Rob Gelston Smith		7833	437	913	923	617			
Quelch 794	6400	7834	863	1083	1100	417	1100	1133	420
300 at	6430	7835	890	1123	1133	473	1148	1187	423
Quelch 795	6450	7836	950	1113	1127	470	1173	1257	497
	6480	7837	913	1130	1143	500	1137	1190	467
Quelch 796	6465	7838	1037	1147	1150	583	1127	1233	417
300 at	6480	7839	1047	1177	1190	683	1157	1237	533
Strontium Molybdate		7840	10	27	33	417	67	70	40
only	8678	7841	10	23	30	417	70	73	43
	8540								
Mercury Molybdate		7842	67	60	70	417	145	17	60
only	11910	7843	83	37	43	620	6	0	33
	11908								
Lot 117 Roflake		7844	1157	1223	1247	987			
24.3 5 fc	7320	7845	1207	1247	1257	987			
	7505								

Note slight cap. about 1487

7838	1183	1323	638	
39	1230	1310	571	
40	97	100	80	
41	90	97	87	
42	0	2	0	
43	0	0	0	

1960 Reg.	7670 7610	7846 7847	1173 1157	1223 1223	—	553 557	
1961 Reg	7294 7810	7848 7849	1233 1227	1250 1287	—	540 563	
1962 "	7835 7813	7850 7851	1213 1177	1243 1217	—	513 493	
1963 "	7840 7843	7852 7853	1223 1203	1257 1243	—	473 480	
1964 "	7564 7807	7854 7855	1223 1220	1280 1203	—	490 477	
				10 lost			
1965 "	7870 7828	7856 7857	1157 1140	1207 1140	1213 1180	680 643	
1966 "	7737 7720	7858 7859	1183 1083	1197 1153	1200 1160	680 613	
1967 "	7780 7809	7860 7861	1087 1153	1140 1187	1147 1193	573 580	
				1480			

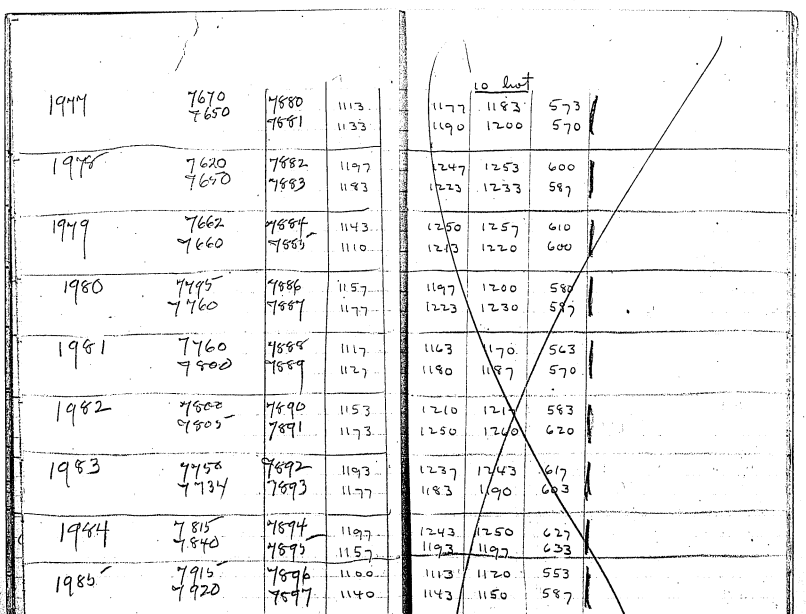
1217

1480

16

1600
1536
384
320
128
112

				10 lust		
1968	7890 7850	7862 7863	1167 1197	1217 1253	1223 1260	587 573
1969	7725 7438	7864 7865	1163 1133	1217 1170	1223 1177	547 540
1970	7460 7731	7866 7867	1157 1187	1197 1243	1200 1250	570 570
1971	7830 7840	7868 7869	1177 1160	1230 1217	1237 1223	567 567
1972	7870 7850	7870 7871	1190 1177	1233 1237	1243 1243	570 573
1973	7890 7810	7872 7873	1187 1133	1273 1190	1277 1197	607 563
1974	7649 7613	7874 7875	1187 1193	1247 1250	1257 1257	587 590
1975	7748 7580	7876 7877	1223 1190	1260 1230	1267 1237	587 587
1976	7778 7720	7878 7879	1177 1177	1227 1237	1230 1243	583 583


1977
1978
1979
1980
1981
1982
1983
1984
1985
lo lust

				10 hut		
1986	7801	7898	1120	1137	1143	550
	01824	7899	1140	1150	1160	547
1987	7900	7900	1103	1127	1133	477
	7940	7901	1167	1187	1197	500
1988	7850	7902	1153	1180	1187	477
	7900	7903	1183	1203	1210	477
1989	7850	7904	1203	1203	1210	473
	7820	7905	1197	1203	1213	473
1990	7850	7906	1223	1233	1240	473
	7845	7907	1193	1200	1210	473
1991	7905	7908	1227	1233	1240	497
	7950	7909	1210	1250	1257	510
				10th add mm after	10 hut	20
N. Off 2 Contam 1% Coff 2		7910	1207	1300	–	503
	7370	7911	1197	1277	–	497
	7330	7912	1193	1241	–	513
	7392					
1992 Reg.	7.840	7913	1187	1203	1210	470
	7.870	7914	1193	1230	1237	493

20		
1334	1350	537
1283	1330	543
1300	1317	553

7910	1330	1337	623	
7911	1280	1277	613	
7912	1283	1287	630	

$Yi(OH)_2$	1993	Rq.	7.960	7915	1203	1207	1217	493	
			7.931	7916	1133	1173	1180	473	
"	1994	"	7.840	7917	1223	1217	1223	473	
			7.810	7918	1167	1183	1190	473	
"	1995	"	7.630	7919	1107	1243	1253	780	
			7.605	7920	893	1030	1060	663	
"	1996	"	7.782	7921	1043	1170	1183	670	
			7.800	7922	837	1017	1030	630	
"	1997	"	7.650	7923	1180	1323	1327	647	
			7.685	7924	1183	1290	1307	583	
"	1998	"	7.839	7925	1173	1267	1280	563	
			7.865	7926	1167	1250	1260	523	
"	1999	"	7.810	7927	1147	1263	1273	503	
			7.780	7928	1127	1243	1253	503	
"	2000	"	7.820	7929	1097	1193	1203	503	
			7.860	7930	1157	1290	1290	502	
Sat 118 Yi 7 hole			7.390	7931	1113	1223	1243	460	
#23.7: 7 4.5			7.372	7932	1097	1227	1250	477	

10 hut

Soft Ni-Zn Cable	7.470	7933	1130
24 4.3	7.490	7934	1147
$Ni(OH)_2$ 2001 Reg.	7.840	7935	1117
	7.860	7936	1133
" 2002 "	7.800	7937	1130
	7.730	7938	1180
" 2003 "	7.730	7939	1143
	7.690	7940	1090
" 2004 "	7.857	7941	1177
	7.829	7942	1177
" 2005 "	7.740	7943	1117
	7.760	7944	1117
" 2006 "	7.830	7945	1173
	7.863	7946	1153
" 2007 "	7.740	7947	1120
	7.790	7948	1160
" 2008 "	7.798	7949	1107
	7.750	7950	1100

50			
1280	1380	547	
1263	1283	553	
	0 hot runs		
1277	1283	490	
1243	1253	510	
1257	1267	507	
1287	1297	520	
1283	1290	507	
1207	1220	503	
1303	1310	537	
1310	1317	547	
1250	1257	500	
1250	1257	503	
1307	1317	520	
1247	1260	500	
1223	1233	500	
1317	1327	517	
1257	1267	500	
1257	1267	497	

$Ni(OH)_2$ 2009 Reg.	7.870	7951	993	1223	1233	493	//	
	7.862	7952	1127	1257	1267	517		
" 2010 "	7.730	7953	1157	1287	1293	500	//	
	7.740	7954	1177	1220	1227	497		
" 2011 "	7.850	7955	1087	1213	1227	517	//	
	7.850	7956	1067	1177	1187	513		
" 2012 "	7.870	7957	1147	1283	1290	547	//	
	7.875	7958	1120	1220	1230	533		
" 2013 "	7.790	7959	1157	1333	1340	560	//	
	7.780	7960	1123	1260	1253	527		
R.A. Exp. 1479	7.472	7961	1127	1330	1340	547	//	
	7.500	7962	1130	1330	1340	547		
$Ni(OH)_2$ 2014 Reg.	7.889	7963	1143	1260	1273	533	//	
	7.843	7964	1087	1203	1210	513		
" 2015 "	7.850	7965	1083	1283	1267	543	//	
	7.800	7966	1080	1220	1233	513		
" 2016 "	7.790	7967	1157	1300	1307	543	//	
	7.730	7968	1087	1263	1277	530		

$Yb(OH)_2$ 2017 Reg.	7.810	7.9969	1100	1193	1200	723
	7.820	7.9970	1180	1287	1293	767
" 2018 "	7.915	7.9971	1107	1227	1233	750
	7.938	7.9972	1173	1297	1307	783
" 2019 "	7.805	7.9973	1143	1223	1230	750
	7.795	7.9974	1177	1260	1267	750
" 2020 "	7.813	7.9975	1173	1233	1260	763
	7.812	7.9976	1183	1283	1290	767
" 2021 "	7.750	7.9977	1220	1327	1333	787
	7.720	7.9978	1197	1293	1303	783
" 2022 "	7.800	7.9979	1173	1277	1283	763
	7.750	7.9980	1213	1337	1343	783
" 2023 "	7.870	7.9981	1223	1339	1340	787
	7.800	7.9982	1187	1293	1290	760
" 2024 "	7.720	7.9983	1133	1237	1243	760
	7.680	7.9984	1217	1320	1327	787
" 2025 "	7.755	7.9985	1187	1283	1290	783
	7.784	7.9986	1217	1293	1300	783

$Ni(OH)_2$ 2026 Reg.	7.670	7987	1170
	7.733	7988	1173
" 2027 "	7.780	7989	1207
	7.780	7990	1200
" 2028 "	7.785	7991	1220
	7.772	7992	1217
H.H.S. Bursting test		7993	1363
$\frac{5}{8}$" tubes (4) 2.$\frac{5}{8}$" long 4 rings each tube		7994	1343
H.H.S. Bursting test		7995	1107
Same as 7993, but without rings.		7996	1220
H.H.S. Bursting test		7997	1290
Same as 7993, but two tubes with two without rings		7998	1250
Goldstein 788, dup. of 7820 only heated at 300 std. into 19. cakes.	7.218	7999	817
	7.145	8000	917
Set 120 Ni 7 tubes	7.382	8001	1193
H 24.1 74.5	7.420	8002	1187

1247	1263	783				
1233	1260	783				
1283	1293	863				
1273	1280	867				
1282	1293	867				
1310	1317	963				
50						
1300	1377	550				Seams begin opening after 4th rev.
1317	1390	540				" " "
787	833	663				Seams badly open after 2nd rev.
1133	1187	600				" slightly " " " "
1307	1373	563				" " " "
1080	1133	520				" " " "
1170	1190	323	1187	1213	413	
620	1320	410	1313	1360	467	
50						
1267	1297	553	1203	1290	627	
1247	1273	533	1190	1270	627	

N.N.S. Exp. $\frac{1}{8}$" tubes, 4 in grid $2\frac{5}{8}$" tubes with 4 rings	7.860 7.820	8003 8004	1277 1333
Ni tris 8003 except no rings on tubes		8005 8006	1250 1260
$Ni(en)_3$ 2029 Reg.	7.860 7.820	8007 8008	1190 1190
" 2030 "	7.880 7.890	8009 8010	1147 1170
" 2031 "	7.897 7.895	8011 8012	1163 1197
" 2032 "	7.865 7.870	8013 8014	1187 1160
" 2033 "	7.720 7.740	8015 8016	1157 1197
" 2034 "	7.810 7.800	8017 8018	1143 1153
" 2035 "	7.710 7.762	8019 8020	1157 1147

1263 1207	1327 1323	493 460	//
1143 1130	1163 1208	480 487	//
1267 1280	1277 1287	733 680	//
1237 1253	1243 1260	597 567	//
1223 1243	1230 1253	513 510	//
1247 1220	1250 1230	513 477	//
1257 1280	1263 1287	480 483	//
1233 1253	1243 1260	480 477	//
1230 1207	1237 1217	507 487	//

$Ti(OH)_2$	2036	Reg.	7.615	8021	1157	12.80	12.87	5.17	
			7.590	8022	1153	12.60	12.67	5.00	
"	2037	"	7.700	8023	1183	13.07	13.13	5.33	
			7.707	8024	1143	12.47	12.57	5.27	
"	2038	"	7.542	8025	1147	12.40	12.67	5.00	
			7.596	8026	1153	12.60	12.67	5.00	
"	2039	"	7.835	8027	1177	12.30	12.40	4.83	
			7.817	8028	1153	12.27	12.33	4.97	
"	2040	"	7.678	8029	1213	12.73	12.83	4.97	
			7.657	8030	1210	12.33	12.40	4.86	
"	2041	"	7.647	8031	1217	12.87	12.97	5.33	
			7.652	8032	1183	12.20	12.30	4.90	
"	2042	"	7.887	8033	1177	12.53	12.60	5.00	
			7.892	8034	1150	12.23	12.33	4.73	
"	2043	"	7.822	8035	1133	11.93	12.00	4.73	
			7.852	8036	1150	12.00	12.17	4.73	
"	2044	"	7.785	8037	1117	12.63	12.80	5.20	
			7.795	8038	1143	12.27	12.37	5.20	

$Ni(OH)_2$ 2045 Reg.	7.876	8039	1130
	7.850	8040	1127
" 2046 "	7.675	8041	1133
	7.650	8042	1167
" 2047 "	7.785	8043	1160
	7.805	8044	1163
" 2048 "	7.835	8045	1177
	7.760	8046	1187
W.E.H. Exp. Reg. cells; 21% +2 Si; 1.5 g. Potash / Imm. Expelmite (q.v. a. 2026A) in cells		8047	1133
		8048	1127
$Ni(OH)_2$ 2049 Reg.	7.709	8049	1067
	7.694	8050	1080
$Ni(OH)_2$ 2050 Reg.	7.686	8051	1143
	7.710	8052	1093
" 2051 "	7.776	8053	1117
	7.760	8054	1117
" 2052 "	7.675	8055	1110
"	7.725	8056	1127

1200	1213	497
1183	1197	487
1217	1227	497
1210	1223	477
1223	1237	500
1237	1247	500
1270	1280	537
1247	1253	523
1170	1190	530
1107	1150	697
1460	1473	493
1170	1177	493
1197	1200	500
1153	1160	463
1197	1203	467
1200	1213	467
1173	1180	470
1160	1213	467

$Ni(OH)_2$	2053	Reg	7.635	8057	1210
			7.636	8058	1173
$Ni(OH)_2$	2054	"	7.690	8059	1140
			7.705	8060	1117
"	2055	"	7.640	8061	1173
			7.660	8062	1220
"	2056	"	7.697	8063	1207
			7.689	8064	1217
"	2057	"	7.696	8065	1197
			7.640	8066	1230
"	2058	"	7.733	8067	1230
			7.670	8068	1240
"	2059	"	7.807	8069	1210
			7.810	8070	1210
"	2060	"	7.820	8071	1240
			7.780	8072	1210
"	2061	"	7.760	8073	1160
			7.722	8074	1250

1223	1233	843	
1190	1197	733	//
1197	1203	697	
1137	1147	647	//
1207	1213	543	
1277	1287	573	//
1230	1260	540	
1243	1253	500	//
1233	1243	503	
1257	1263	497	//
1230	1240	500	
1280	1297	500	//
1237	1247	503	
1233	1243	500	//
1283	1293	550	
1253	1267	537	//
1223	1237	550	
1263	1280	517	//

Mrs.	2062	Reg.	7.650	8075	1230	1280	1287	533	U
			7.685	8076	1257	1313	1330	553	
"	2063	"	7.670	8077	1213	1253	1263	517	"
			7.610	8078	1193	1263	1277	517	
"	2064	"	7.650	8079	1247	1293	1307	510	
			7.700	8080	1190	1247	1253	497	"
"	2065	"	7.620	8081	1113	1263	1277	500	
			7.620	8082	1250	1290	1304	507	"
"	2066	"	7.650	8083	1247	1280	1287	530	
			7.695	8084	1237	1257	1263	490	"
"	2067	"	7.660	8085	1213	1233	1240	490	"
			7.630	8086	1243	1263	1267	490	
"	2068	"	7.702	8087	1227	1123	1133	490	"
			7.670	8088	1193	1213	1223	490	
"	2069	"	7.586	8089	1243	1283	1293	413	
			7.558	8090	1223	1247	1250	490	"
"	2070	"	7.630	8091	1277	1283	1293	500	
			7.610	8092	1263	1253	1262	487	"

$Th(OH)_2$ 2071 Reg.	7.690	8093	1230	1440	1447	487	
	7.635	8094	1220	1457	1263	513	
" 2072 "	7.655	8095	1237	1227	1233	543	
	7.680	8096	1187	1247	1257	513	
" 2073 "	7.700	8097	1217	1237	1243	513	
	7.730	8098	1133	1170	1177	473	
" 2074 "	7.660	8099	1197	1210	1217	477	
	7.640	8100	1200	1260	1283	467	
Lot #122 Th Ft. for Lot 121 $Th(OH)_2$ 1256	7.460	8101	1260	1247	1300	543	
	7.430	8102	1253	1270	1303	570	
Lot 121 Th Ft. $Th(OH)_2$ 1256	7.580	8103	1167	1260	1250	643	
	7.585	8104	1163	1263	1250	703	
Lot 122 Th Ft. $Th(OH)_2$ 1256	7.703	8105	1167	1240	1263	360	
	7.690	8106	1160	1240	1263	350	
$Th(OH)_2$ 2075 Reg.	7.720	8107	1227	1273	1283	987	
	7.750	8108	1247	1303	1313	847	
" 2076 "	7.713	8109	1270	1317	1327	759	
	7.700	8110	1263	1300	1313	717	

$Ni(OH)_2$ 2077 Reg.	7.745	8111	1240	1270	1280	667	//				
	7.765	8112	1267	1283	1290	620					
" 2078 "	7.650	8113	1217	1230	1257	640	//	100			
	7.660	8114	1250	1257	1260	587					
W.E.H. Exp. ⅛" Tubes with indentations to receive rings of adjacent tubes. Long Tubes		8115	2007	1867	1957	360	1860	2040	883		
		8116	2090	1967	2117	368	1867	2007	817		
W.E.H. Exp. Same without indentations as above. Long Tubes		8117	1993	1900	2033	364	817	1997	763		
		8118	2120	2067	2217	394	1920	2183	760		
$Ni(OH)_2$ 2079 Reg.	7.764	8119	1240	1263	1270	567	//				
	7.700	8120	1267	1267	1270	563					
" 2080 "	7.670	8121	1260	1283	1293	557	//				
	7.620	8122	1257	1280	1290	527					
" 2081 "	7.500	8123	1283	1277	1287	557	//				
	7.570	8124	1263	1230	1247	533					
" 2082 "	7.690	8125	1283	1270	1280	517					
	7.655	8126	1290	1243	1257	530					
" 2083 "	7.630	8127	1260	1293	1303	517	//				
	7.645	8128	1278	1280	1293	520					

8115	1760	1920	1700	1757	1917	773
8116	1743	1900	703	1680	1893	693
8117	1702	1903	717	1673	1947	700
8118	1913	2053	790	1800	1997	737

1610	1727	653
1573	1667	617
1560	1650	590
1660	1800	593

Ni(CO)$_2$ 2084 Reg.	7.672	8129	1257	1297	1307	560					
	7.620	8130	1260	1307	1320	560					
" 2085 "	7.666	8131	1293	1327	1337	563					
	7.685	8132	1291	1340	1347	557					
" 2086 "	7.690	8133	1277	1277	1290	520					
	7.665	8134	1260	1293	1307	557					
" 2087 "	7.671	8135	1277	1313	1327	553					
	7.624	8136	1267	1320	1330	573					
" 2088 "	7.550	8137	1280	1333	1350	563					
	7.550	8138	1277	1323	1330	563					
" 2090 "	7.662	8139	1263	1323	1330	563					
	7.652	8140	1260	1303	1310	570					
" 2091 "	7.710	8141	1293	1320	1330	570					
	7.677	8142	1287	1287	1300	530					
W.E.H. experiment											
$\frac{1}{4}$" long tube from upper half of plate 81		8143	1863	1807	1923	997	1720	1807	695		
the lower half of which had fused. 8143		8144	1853	1733	1820	977	1670	1787	465		
mounted in H$_2$O 3 days before mmg. 8144 not mounted								6 hour swollen - spaz pattern			
W.E.H. Exp.	Soaked	8145	1567	1673	1730	640	1567	1643	738		
Dup of 8143+44 Plate #2 unt.		8146	1393	1667	1713	913	1523	1643	938		

8143	1510	1647	763	
8144	1513	1653	1191	
8145	1410	1523	923	
8146	1400	1527	1043	

W.E.H. Exp. Dup. 8143-4 Plate #3	Soaked	8147	1617	1747	1800	683	1693	1754	741
	Not "	8148	1693	1610	1650	743	1497	1587	788
W.E.H. Exp. Dup. 8143-4 Plate #4	Soaked	8149	1813	1887	1950	713	1843	1977	695
	Not "	8150	1873	1827	1950	727	1760	1967	738
W.E.H. Exp. Dup. 8143-4 Plate #5	Soaked	8151	1827	1697	1847	1023	1800	1783	945
	Not "	8152	1780	1593	1643	963	1470	1577	1017
W.E.H. Exp Dup 8143-4 Plate #6	Soaked	8153	1817	1897	1938	690	1857	1983	791
	Not "	8154	1783	1967	1957	690	1843	1983	795
Lot #123 Ni flake		7.520	8155	1213	1283	1320	530		
$Ni(OH)_2$ #1256		7.480	8156	1207	1258	1280	527		
$Ni(OH)_2$ 1963 Reg.		7.470	8157	1260	1320	1330	520		
		7.452	8158	1267	1343	1369	513		
" 2089 "		7.540	8159	1207	1327	1333	513		
		7.557	8160	1257	1343	1357	510		
" 2092 "		7.585	8161	1220	1280	1300	510		
		7.570	8162	1260	1330	1340	513		
" 2093 "		7.510	8163	1247	1303	1333	507		
		7.480	8164	1283	1360	1377	540		

8147	1558	1707	467	II
48	1360	1487	827	
8149	1703	1927	637	II
50	1600	1818	670	
8151	1497	1770	643	II
52	1416	1533	930	
53	1717	2017	810	I
54	1750	2083	980	

$Ti(OH)_2$	2094	Rgr.	7.605	8165	1267	1297	1307	517	
			7.580	8166	1293	1340	1350	520	
"	2095	"	7.780	8167	1223	1320	1330	520	
			7.785	8168	1223	1277	1290	513	
"	2096	"	7.598	7169	1277	1330	1340	517	
			7.603	7170	1293	1363	1377	520	
"	2097	"	7.537	8171	1220	1293	1307	520	
			7.546	8172	1220	1260	1277	533	
"	2098	"	7.698	8173	1237	1280	1290	520	
			7.679	8174	1250	1323	1333	523	
"	2099	"	7.627	8175	1250	1370	1380	523	
			7.570	8176	1253	1337	1347	547	
"	2100	"	7.686	8177	1247	1323	1333	547	
			7.519	8178	1243	1313	1323	583	
"	2101	"	7.591	8179	1290	1320	1337	617	
			7.605	8180	1310	1320	1330	620	

$Ni(OH)_2$ 2102 Reg.	7.632	8181	1283	1297	1310	637	
	7.614	8182	1300	1300	1313	717	
" 2103 "	7.993	8183	1257	1267	1280	737	
	7.470	8184	1263	1267	1280	780	
" 2104 "	7.557	8185	1297	1273	1287	820	
	7.562	8186	1290	1280	1293	870	
" 2105 "	7.569	8187	1270	1267	1280	917	
	7.695	8188	1273	1273	1283	967	
Lot #1214 Ni flake	7.525	8189	1200	1230	1253	1443	
$Ni(OH)_2$ #1256	7.560	8190	1202	1233	1260	1473	
$Ni(OH)_2$ 2106 Reg.	7.618	8191	1247	1273	1283	653	
	7.600	8192	1273	1290	1300	623	
" 2107 "	7.600	8193	1250	1303	1313	607	
	7.580	8194	1233	1262	1273	523	
" 2108 "	7.600	8195	1260	1293	1303	527	
	7.590	8196	1283	1333	1350	523	

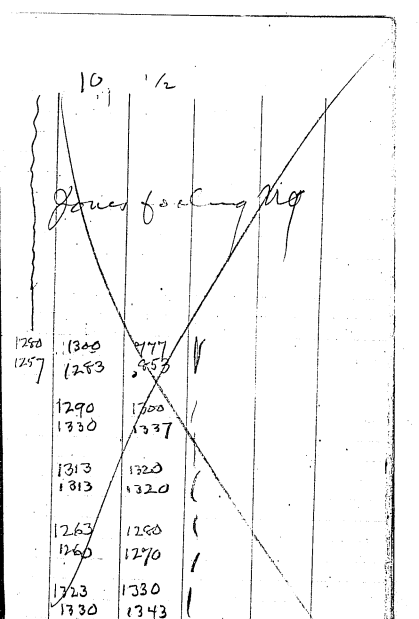
$Ni(OH)_2$	2109	Reg.	7.520	8197	1223	1250	1263	523				
			7.560	8198	1273	1317	1327	540				
"	2110	"	7.723	8199	1240	1327	1240	533				
			7.677	8200	1193	1233	1247	523				
"	2111	"	7.671	8201	1207	1280	1297	560				
			7.686	8202	1210	1270	1280	560				
"	2112	"	7.613	8203	1273	1313	1327	547	Ok fe's			
			7.620	8204	1267	757	1303	550				
"	2113	"	7.866	8205	1297	1307	317	557				
			7.852	8206	1260	1283	1293	540				
"	2114	"	7.649	8207	1247	1277	1287	553				
			7.668	8208	1253	1297	1307	563				
"	2115	"	7.643	8209	1253	1297	1307	550				
			7.639	8210	1250	1263	1273	553				
"	2116	"	7.743	8211	1283	1307	1320	563				
			7.744	8212	1283	1307	1320	560				

Lot #125 Ni flake $Ni(OAc)_2$ #1256	7.530 7.490	8213 8214	1133 1127
Jones #813 $Ni(OAc)_2$ Passed in 2 gas. cakes at 300 at.	6.938 6.960	8215 8216	850 867
Jones #815 $Ni(OAc)_2$ 300 atmos. pressure	6.756 6.730	8217 8218	860 907
Jones #818 $Ni(OAc)_2$ 300 atmos. pressure	6.510 6.530	8219 8220	867 887
Jones #816 $Ni(OAc)_2$ 300 atmos. pressure	6.731 6.690	8221 8222	923 920
Jones #819 $Ni(OAc)_2$ 300 atmos. pressure	6.379 6.386	8223 8224	960 933
Jones #830 $Ni(OAc)_2$ 300 at.	7.233 7.245	8225 8226	1140 1140
Jones #831 $Ni(OAc)_2$ 300 at.	7.426 7.390	8227 8228	1100 1143
Jones #833 $Ni(OAc)_2$ 300 at.	7.560 7.521	8229 8230	1163 1123

1197 1157	1237 1187	440 447	
1126 1127	1134 1140	400 393	
1084 1100	1097 1117	340 367	

NG Jones finishing.

Jones #826 $Ni(OH)_2$ 300 At.		6.933	8231	1100
		6.951	8232	1067
Jones #827 $Ni(OH)_2$ 300 At.		7.183	8233	1120
		7.230	8234	1123
Jones #832 $Ni(OH)_2$ 300 At		7.830	8235	1093
		7.806	8236	1100
Jones #829 $Ni(OH)_2$ 300 At.		6.417	8237	953
		6.437	8238	957
Lot #126 Ni flake $Ni(OH)_2$ 1256		7.410	8239	1160
		7.601	8240	1157
$Ni(OH)_2$ 2118 Reg		7.704	8241	1221
		7.703	8242	1233
" 2117 "		7.668	8243	1163
		7.680	8244	1230
" 2119 "		7.750	8245	1197
		7.741	8246	1197
" 2120 "		7.636	8247	1247
		7.630	8248	1267



Mi(Cont)_	#2121	Reg.	7.749 7.750	8249 8250	1223 1247
"	2122	"	7.662 7.659	8251 8252	1217 1193
"	2123	"	7.702 7.720	8253 8254	1120 1163
"	2124	"	7.622 7.640	8255 8256	1187 1160
"	2125	"	7.705 7.743	8257 8258	1267 1267
"	2126	"	7.692 7.701	8259 8260	1200 1227
"	2127	"	7.665 7.660	8261 8262	1223 1240
"	2128	"	7.742 7.770	8263 8264	1193 1233
"	2129	"	7.658 7.678	8265 8266	1233 1210

10
9 1/2

1310	1320
1287	1297
1360	1310
1263	1280
1287	1230
1297	1313
1337	1370
1263	1260
1313	1330
1313	1324
1263	1270
1267	1283
1307	1330
1260	1267
1250	1268
1297	1307
1313	1323
1243	1253

18 | 23100 (1283 7/8

18
56
36
20
14
6

$Ti(OEt)_2$ 2130 Reg.	7.700	8267	1243
	7.705	8268	1200
" 2131 "	7.692	8269	1270
	7.711	8270	1253
" 2132 "	7.728	8271	1240
	7.728	8272	1243
" 2133 "	7.733	8273	1260
	7.685	8274	1217
" 2134 "	7.713	8275	1247
	7.720	8276	1200
" 2135 "	7.726	8277	1163
	7.753	8278	1237
" 2136 "	7.626	8279	1190
	7.612	8280	1223
" 2137 "	7.562	8281	1230
	7.540	8282	1240
Jones $Ti(OEt)_2$ #817 300 at.	6.700	8283	✓
	6.760	8284	

10

1250	1317		
1293	1297		
1337	1350		
1333	1347		
1270	1260		
1307	1317		
1307	1317		
1287	1300		
1284	1290		
1247	1257		
1263	1247		
1293	1300		
1250	1297		
1253	1257		
1278	1243		
1257	1263		
1137	1150	390	
1167	1180	403	

Jones $Ti(OH)_2$ # 823. 300 at.	6.515 6.503	8285 8286	910 893	
" 825 300 at.	6.938 6.910	8287 8288	1130 1120	
" 828 300 at.	6.590 6.450	8289 8290	950 960	
" 836 300 at.	7.996 7.990	8291 8292	997 1057	
" 835 300 at.	7.461 7.510	8293 8294	1113. 1127	
" 836 300 at.	7.279 7.369	8295 8296	1153 1147	
" 837 300 at.	7.000 7.040	8297 8298	1147 1160	
" 838 300 at.	7.278 7.277	8299 8300	1163 1150	
$Ti(OH)_2$ # 2138 Rey.	7.662 7.610	8301 8302	1287 1285	

1093 1047	1107 1053	403 387	
1277 1157	1260 1170	393 373	
1097 1110	1110 1117	390 387	
1110 1143	1123 1173	420 417	
1213 1187	1273 1267	443 427	
1213 1223	1230 1247	457 453	
1157 1190	1177 1213	560 623	
1207 1190	1233 1223	640 654	
1293 1263	1283 1273	517 520	

$Ni(BH_4)_2$	2139	Reg.	7.648	8303	1283
			7.632	8304	1287
"	2140	"	7.630	8305	1260
			7.605	8306	1247
"	2141	"	7.660	8307	1240
			7.669	8308	1217
"	2142	"	7.710	8309	1273
			7.690	8310	1263
"	2143	"	7.705	8311	1300
			7.702	8312	1277
"	2144	"	7.682	8313	1270
			7.670	8314	1267
"	2145	"	7.691	8315	1237
			7.685	8316	1240
"	2146	"	7.660	8317	1237
			7.640	8318	1230
"	2147	"	7.600	8319	1263
			7.561	8320	1257

10	1/2	ft	
1267	1250	520	
1227	1240	487	
1240	1250	510	
1230	1240	490	
1230	1247	483	
1217	1223	483	
1257	1267	470	
1243	1253	470	
1260	1267	467	
1243	1253	460	
1253	1260	473	
1243	1253	470	
1220	1230	470	
1263	1277	483	
1253	1257	463	
1240	1250	504	
1247	1257	520	
1247	1257	514	

$Ni(OH)_2$	2148	Reg.	7.580	8321	1263
			7.592	8322	1217
"	2149	"	7.615	8323	1197
			7.625	8324	1197
"	2150	"	7.640	8325	1257
			7.672	8326	1273
"	2151	"	7.681	8327	1263
			7.690	8328	1283
"	2152	"	7.580	8329	1263
			7.592	8330	1220
"	2153	"	7.630	8331	1243
			7.621	8332	1213
"	2154	"	7.779	8333	1280
				8334	1247
"	2155	"	7.775	8335	1277
			7.780	8336	1277
"	2156	"	7.602	8337	1223
			7.593	8338	1227

10	1/2	H	
1280	1243	477	
1213	1223	580	
1177	1187	470	
1197	1213	500	
1240	1253	520	
1243	1257	564	
1240	1247	587	
1243	1257	640	
1237	1253	687	
1217	1223	643	
1230	1240	650	
1200	1213	697	
1353	1367	463	
1363	1320	483	
1357	1370	467	
1347	1360	464	
1397	1410	547	
1417	1437	580	

$Tl_2(CO_3)_2$	2157	Reg.	7.725	8339	1247
			7.730	8340	1220
"	2158	"	7.577	8341	1170
			7.583	8342	1227
"	2159	"	7.550	8343	1270
			7.563	8344	1277
"	2160	"	7.599	8345	1213
			7.580	8346	1237
"	2161	"	7.682	8347	1197
			7.662	8348	1247
"	2162	"	7.618	8349	1247
			7.630	8350	1247
"	2163	"	7.773	8351	1280
			7.781	8352	1253
"	2164	"	7.720	8353	1227
			7769	8354	1237
"	2165	"	7.660	8355	1247
			7.660	8356	1253

1313	1330	487
1293	1303	490
1297	1313	493
1293	1317	493
1413	1430	546
1403	1423	523
1280	1297	493
1330	1343	493
1307	1323	493
1333	1347	490
1357	1370	493
1300	1320	497
1350	1364	503
1250	1273	490
1270	1290	490
1323	1330	507
1303	1313	503
1310	1327	503

Rig

		8367	1260
		8358	1260
		8359	1253
		8360	1237
		8361	1267
		8362	1253
		8363	1253
		8364	1247
Goldstein 824	6497	8365	1007
	6492	8366	1010
pressure 300			
Goldstein 840	7656	8367	1017
pressure 300	7615	8368	1103
Goldstein - 841.		8369	1087
pressure 300	7910	8370	1130
	7900		
Goldstein 842	7470	8371	1090
pressure 300	7452	8372	1100

1287	1317	503			
1327	1343	497			
1343	1357	583			
1310	1323	597			
1243	1270	690			
1313	1333	723			
1300	1317	753			
1313	1323	670			
1190	1213	423			
1180	1193	423			
1247	1293	433			
1233	1260	440			
1220	1243	456	1250	1283	570
1230	1270	470	1277	1327	587
1287	1240	433	1243	1317	557
1193	1223	447	1257	1277	540

Qal 843 Pleist 300	7430 7440	8373 8374	1107 1120	1230 1263	1263 1287	420 463	1257 1307	1310 1437	597 623		
Lot 127 flake 4.3 — Flake —	7550 7530	8376 8376	1183 1250	1303 1293	1322 1323	453 420					
2170 Reg	7600 7635 —	8377 8378	1257 1240	1297 1380	1297 1362	693 627					
2171 Reg	7640 7640	8379 8380	1247 1230	1310 1260	1317 1313	623 600					
Strontium sulfate alone with flake 3.8 Pleist 300	3855.564 8870 8880	8381 8382	0 0	0 0	0 0	0 0					
Dup but only 1/2 the amount qualitative pleist 300 approx	9405 9573	8383 8384	0 0	0 0	.7 .7	0 0					
Dup but only 1/2 amount $SrSO_4$ & 1/2 amount flake —	8975 8980	8385 8386	0 0	0 0	0 0	0 0					
1/8 tube 1981 no flake 4 mm ave dia — Long tubes —		8387 8388	840 843	1177 1256	1180 1233	417 417	1187 1253	1/2 1190 1257	454 480		

bedrock gravel succession

8387	1197	1203	610	300 1183	1193	627
8368	1257	1260	610	1527	1567	1070

Abut swollen seams of Coal
split 2 places
Norlake

1137	117	777	300 1037	1060	993	//
1333	1458	1000	1307	1443	967	

bad sulfury
split 2 places
bad sulfury, flattening
split 3 places

						Scum flared — Part —			fruit scrollen flaw (m)		
1/8 tubes Lwarded 2 dumps hydrant + one dump float of Tubes		8389 8390	1937 1850			1690 1657	1777 1707	613 567	1563 1543	1643 1570	500 453
tube 1/16" placed near wire Near Centre — drosky 3 Hour rate		8391 8392 8393 8394	62 22 12 133			200 97 43 247	200 97 43 247	177 83 53 233			
Goldstein 839 Processed	7783 7662	8395 8396	1097 1060			1243 1203	1270 1233	510 493	1283 1223	1357 1300	560 457
Goldstein 844 Processed	6700 6700	8397 8398	1123 1110			1247 1217	1263 1233	407 410	1240 1197	1300 1267	420 400
Goldstein 845 Processed	7380 7470	8399 8400	1107 1113			1227 1253	1250 1253	443 433	1267 1267	1333 1323	466 460
Goldfish 846 Processed	7343 7340	8401 8402	1147 1160			1350 1330	1370 1350	463 403	1363 1330	1427 1380	463 463
Goldstein 847 processed 300	6350 6447	8403 8404	1073 1073			1177 1193	1190 1217	403 436			
Reg - 2172	7740 7720	8405 8406	1257 1273			1290 1263	1293 1270	907 883			
Reg 2173	7695 7680	8407 8408	1243 1257			1260 1280	1267 1303	797 743			

				200			
8389	1477	1543	637	1463	1467	663	
8390	1470	1583	497	1413	1447	657	

				200			
8401	1400	1513	650	1210	1447	717	
8402	1320	1430	470	1250	1457	730	

heat wallow again pl cancel

				300			
1350	1430	733	1420	1500	883		
1330	1380	727	1357	1407	818		

do. split 1 place

300 strut pl cancel " " " split 2 places

1103	1273	723					
1133	1290	763					

Req 2174	7712 7770	8409 8410	1307 1303	1330 1343	1337 1350	713 713
Req 2175	7700 7660	8411 8412	1267 1263	1323 1347	1327 1453	663 690
Req 2176	7594 7610	8413 8414	1243 1253	1317 1303	1323 1310	667 653
Req 2177	7623 7690	8415 8416	1270 1270	1350 1333	1357 1363	653 647
Req 2178	7390 7348	8417 8418	1203 1210	1397 1297	1403 1297	710 627
Req 2179	7747 7710	8419 8420	1273 1290	1383 1367	1390 1373	713 683
Req 2180	7640 7610	8421 8422	1227 1220	1307 1247	1310 1317	670 643
Req 2181	7688 7615	8423 8424	1250 1200	1320 1287	1327 1267	668 643
Req 2182	7605 7675	8425 8426	1247 1237	1310 1307	1313 1310	667 637

Req 2183	7840 7512	8427 8428	1293 1280	1371 1367	1377 1380	633 634	
Req 2184	7700 7434	8429 8430	1263 1280	1337 1397	1347 1407	634 670	
Req 2185	7482 7451	8431 8432	1247 1237	1353 1326	1363 1373	647 648	
Req 2186	7550 7527	8433 8434	1260 1233	1350 1290	1357 1293	648 630	
Req 2187	7550 7497	8435 8436	1247 1223	1340	1347	630	
128 leaks 1256 – 1229 4.3	7540 7540	8437 8438	1230 1197	1343 1313	1363 1330	493 510	
Lot 129 23.9 4.6	7400 7407	8439 8440	1220 1233	1310 1330	1327 1350	554 610	
Goldsby special pressure	6395 6543	8441 8442	1000 1053	1177 1223	1190 1247	556 704	

RL Expt 1802	7760 7745	8443 8444	1223 1197	1333 1313	1347 1327	493 493				
RL Expt 1802 B	7980 8020	8445 8446	1247 1253	1327 1340	1337 1350	533 520				
Gold Lion 857 pressed 300	7625 7580	8447 8448	1130 1107	1317 1307	1330 1327	423 423	1267 1267	1320 1313	250 283	
Gold Lion 858 pressed 300	7330 7305	8449 8450	1167 1177	1279 1300	1290 1320	417 420	1347 1336	1390 1380	383 283	
Gold Lion 859 300 atmos	6970 6960	8451 8452	1117 1163	1253 1320	1263 1330	420 423	1287 1327	1353 1373	427 453	
Reg tubes loose 16mm Condon wheat sign tubes		8453 8454 8455 8456	1165 1210 1175 1189	1270 1280 1235 1240	1290 1310 1355 1265	453 457 457 447				
Reg 2188	7821 7870	8457 8458	1250 1220	1277 1243	1287 1250	543 533				
Reg 2189	7880 7810	8459 8460	1287 1257	1313 1283	1320 1293	603 545				

8449	1353	1460	430	1267	1500	680	1120	1333	768
8450	1333	1440	443	1297	1467	683	1147	1287	720
8451	1243	1390	420	1267	1417	703	1100	1267	720
52	1337	1463	397	1250	1550	707	1043	1253	767

Req 2190	7850 7830	8461 8462	1290 1280	1297 1287	1303 1293	550 540				
Req 2191	7910 7892	8463 8464	1283 1280	1297 1310	1303 1317	560 590				
Req 2192	7795 7780	8465 8466	1247 1233	1290 1273	1297 1283	603 533				
Req 2193	7645 7683	8467 8468	1263 1243	1297 1253	1307 1267	663 610				
Req 2194	7540 7585	8469 8470	1217 1243	1247 1263	1253 1270	720 757				
Req 2195	7816 7930	8471 8472	1297 1300	1293 1287	1303 1297	760 817				
Geldolan 860 (cut grass) screw out of Rollmower, left 3/4 ok	7812 7773	8473 8474	1200 1223	1350 1270	1370 1303	460 417	1483 1307	1557 1343	590 540	
Geldolan 861 (cut grass) worked same as 860	7580 7535	8475 8476	1200 1223	1267 1327	1290 1350	417 400	1297 1330	1343 1380	483 513	

8473	1347	1400	827	1183	1243	647
8474	1243	1380	680	1200	1327	673
8475	1297	1373	590	1177	1377	570
8476	1247	1410	660	1243	1397	603

200

slightly smaller & heavier

1090	1197	867	
1000	1180	733	
1067	1247	697	
1078	1267	760	

Hole Gap

C0

Calcium phosphate only + flake — 300 at. 6806 6784	8477 8478		0 0	0 0	0 0				
Barium phosphate + flake only 300 at — 8930 8870	8479 8480		0 0	0 0	0 0				
Strontium phosphate + flake only 300 at — 6863 6870	8481 8482		0 0	0 0	0 0				
Calcium Carbonate + flake only 300 at 6100 6139	8483 8484		17 17	20 20	17 13	30 30	33 33	47 43	
Barium Carb + flake only 8920 8843	8485 8486	3 3	30 33	37 43	23 23	60 70	70 80	47 43	
Strontium Carb only + flake 7032 7040	8487 8488	3 1.7	20 17	23 20	13 10	33 30	37 33	43 47	
Calcium Borate + flake 4785 4609	8489 8490	20 20	27 27.7	28 28.5	27 27	20 20	23 23	60 57	
Barium Borate + flake 5385 5340	8491 8492	0 0	0 0	0 0	0 0				
Strontium Borate 5300 5020	8493 8494	10 8	1 1	3 3	7 7				

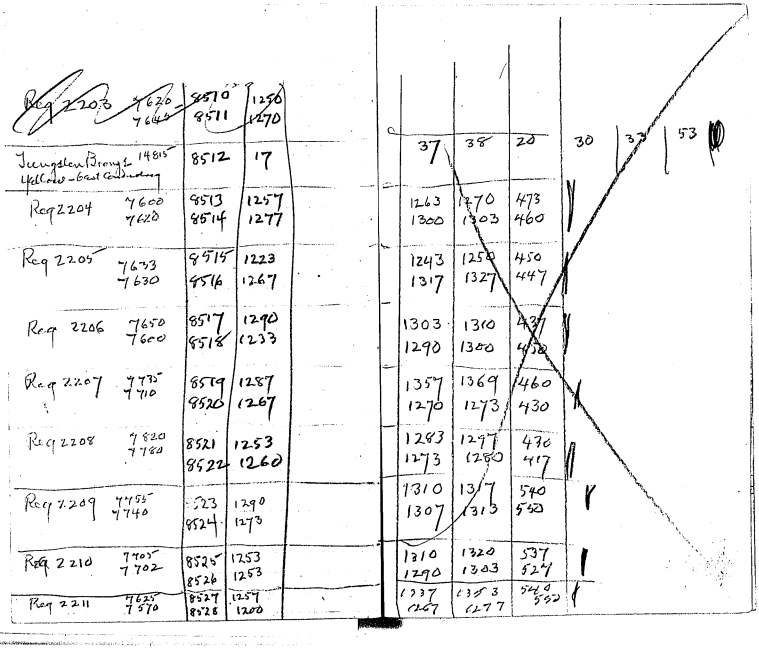
Goldsboro 860-61 from Thos Leighton out Raiford Rd 4 miles from Smithfield
press 2" Cake 3/16 Wick 7600

		8495	1163
Req 2196	7765 7733	8496 8497	1293 1323
Req 2197	7720 7912	8498 8499	1313 1330
Req 2198	7760 7755	8500 8501	1310 1313
Req 2199	7730 7820	8502 8503	1327 1323
Req 2200	7825 7860	8504 8505	1260 1283
Req 2201	7630 7580	8506 8507	1233 1217
Req 2202	7750 7960	8508 8509	1247 1253
Req 2203	7620 7645	8510 8511	1290 1270

8495 1/2 1293 - 1550

1293	1310	773	1317	1367	567
1305 1287	1313 1323	400 477			
1307 1323	1317 1333	420 437			
1313 1330	1330 1343	477 497			
1320 1337	1327 1343	490 490			
1347 1310	1373 1317	557 497			
1260 1223	1270 1240	490 433			
1287 1267	1297 1273	450 453			
1307 1250	1317 1257	483 487			

16 | 208 73 (1304
16 | 8 6
4 | 73 5 1/4


Req 2203
7620
7625
8510
8511
1250
1270
Jungle Gym Bronze 14815
Yellow - East Entrance
8512
17
Req 2204
7600
7620
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Req 2205
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Req 2206
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Req 2207
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Req 2208
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7780
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8522
1253
1260
Req 2209
7755
7740
8523
8524
1290
1273
Req 2210
7705
7702
8525
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Req 2211
7625
7570
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1257
1200
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1267
1313
1277
540
552